



October 2, 2019

Non responsive due to revised scope

Environmental Restoration, LLC
1666 Fabick Drive
Fenton, MO 63026

Certificate of Analysis

Project Name: **Soil Samples**

Workorder: **3059810**

Purchase Order:

Workorder ID: **Shiloh Church Road/3-5467**

Dear **Non responsive due to revised scope**:

Enclosed are the analytical results for samples received by the laboratory on Wednesday, September 25, 2019.

The **Non responsive due to revised scope** is a National Environmental Laboratory Accreditation Program (NELAP) accredited laboratory and as such, certifies that all applicable test results meet the requirements of NELAP.

If you have any questions regarding this certificate of analysis, please contact **Non responsive due to revised scope**

Analyses were performed according to our laboratory's NELAP-approved quality assurance program and any applicable state requirements. The test results meet requirements of the current NELAP standards or state requirements, where applicable. For a specific list of accredited analytes, refer to the certifications section of the **Non responsive due to revised scope**

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This page is included as part of the Analytical Report and must be retained as a permanent record thereof.

Project Coordinator

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SAMPLE SUMMARY

Workorder: 3059810 Shiloh Church Road/3-5467

Lab ID	Sample ID	Matrix	Date Collected	Date Received	Collected By
3059810001	SS09W	Solid	9/23/2019 16:40	9/25/2019 09:03	Collected by Client
3059810002	SS09E	Solid	9/23/2019 17:10	9/25/2019 09:03	Collected by Client
3059810003	SS09SE	Solid	9/24/2019 11:45	9/25/2019 09:03	Collected by Client
3059810004	SS09NW	Solid	9/24/2019 12:15	9/25/2019 09:03	Collected by Client
3059810005	SS17	Solid	9/24/2019 15:00	9/25/2019 09:03	Collected by Client

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SAMPLE SUMMARY

Workorder: 3059810 Shiloh Church Road/3-5467

Notes

- Samples collected by **Non resp** personnel are done so in accordance with the procedures set forth in the **Non resp** Field Sampling Plan (20 - Field Services Sampling Plan).
- All Waste Water analyses comply with methodology requirements of 40 CFR Part 136.
- All Drinking Water analyses comply with methodology requirements of 40 CFR Part 141.
- Unless otherwise noted, all quantitative results for soils are reported on a dry weight basis.
- The Chain of Custody document is included as part of this report.
- All Library Search analytes should be regarded as tentative identifications based on the presumptive evidence of the mass spectra. Concentrations reported are estimated values.
- Parameters identified as "analyze immediately" require analysis within 15 minutes of collection. Any "analyze immediately" parameters not listed under the header "Field Parameters" are preformed in the laboratory and are therefore analyzed out of hold time.
- Method references listed on this report beginning with the prefix "S" followed by a method number (such as S2310B-97) refer to methods from "Standard Methods for the Examination of Water and Wastewater".
- For microbiological analyses, the "Prepared" value is the date/time into the incubator and the "Analyzed" value is the date/time out the incubator.
- An Analysis-Prep Method Cross Reference Table is included after Analytical Results & Qualifiers section in this report.

Standard Acronyms/Flags

J	Indicates an estimated value between the Method Detection Limit (MDL) and the Practical Quantitation Limit (PQL) for the analyte
U	Indicates that the analyte was Not Detected (ND)
N	Indicates presumptive evidence of the presence of a compound
MDL	Method Detection Limit
PQL	Practical Quantitation Limit
RDL	Reporting Detection Limit
ND	Not Detected - indicates that the analyte was Not Detected at the RDL
Cntr	Analysis was performed using this container
RegLmt	Regulatory Limit
LCS	Laboratory Control Sample
MS	Matrix Spike
MSD	Matrix Spike Duplicate
DUP	Sample Duplicate
%Rec	Percent Recovery
RPD	Relative Percent Difference
LOD	DoD Limit of Detection
LOQ	DoD Limit of Quantitation
DL	DoD Detection Limit
I	Indicates reported value is greater than or equal to the Method Detection Limit (MDL) but less than the Report Detection Limit (RDL)
(S)	Surrogate Compound
NC	Not Calculated
*	Result outside of QC limits

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ANALYTICAL RESULTS

Workorder: 3059810 Shiloh Church Road/3-5467

Lab ID: **3059810001**

Date Collected: 9/23/2019 16:40

Matrix: Solid

Sample ID: **SS09W**

Date Received: 9/25/2019 09:03

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
WET CHEMISTRY										
Moisture	7.6		%	0.1	S2540G-11			9/26/19 08:58		
Total Solids	92.4		%	0.1	S2540G-11			9/26/19 08:58		
TCLP METALS										
Arsenic, Total	ND		mg/L	0.14	SW846 6010C	9/27/19 19:50	SXC	9/30/19 09:32		A1
Barium, Total	ND		mg/L	2.8	SW846 6010C	9/27/19 19:50	SXC	9/30/19 09:32		A1
Cadmium, Total	0.54		mg/L	0.011	SW846 6010C	9/27/19 19:50	SXC	9/30/19 09:32		A1
Chromium, Total	ND		mg/L	0.028	SW846 6010C	9/27/19 19:50	SXC	9/30/19 09:32		A1
Lead, Total	2.9		mg/L	0.033	SW846 6010C	9/27/19 19:50	SXC	9/30/19 09:32		A1
Mercury, Total	ND		mg/L	0.0020	SW846 7470A	9/27/19 14:15	AHI	9/28/19 05:30		A
Selenium, Total	ND		mg/L	0.11	SW846 6010C	9/27/19 19:50	SXC	9/30/19 09:32		A1
Silver, Total	ND		mg/L	0.022	SW846 6010C	9/27/19 19:50	SXC	9/30/19 09:32		A1

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ANALYTICAL RESULTS

Workorder: 3059810 Shiloh Church Road/3-5467

Lab ID: 3059810002
Sample ID: SS09E

Date Collected: 9/23/2019 17:10 Matrix: Solid
Date Received: 9/25/2019 09:03

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
WET CHEMISTRY										
Moisture	5.2		%	0.1	S2540G-11			9/26/19 08:58		
Total Solids	94.8		%	0.1	S2540G-11			9/26/19 08:58		
TCLP METALS										
Arsenic, Total	ND		mg/L	0.14	SW846 6010C	9/27/19 19:50	SXC	9/30/19 09:36		A1
Barium, Total	ND		mg/L	2.8	SW846 6010C	9/27/19 19:50	SXC	9/30/19 09:36		A1
Cadmium, Total	1.1		mg/L	0.011	SW846 6010C	9/27/19 19:50	SXC	9/30/19 09:36		A1
Chromium, Total	ND		mg/L	0.028	SW846 6010C	9/27/19 19:50	SXC	9/30/19 09:36		A1
Lead, Total	13.6		mg/L	0.033	SW846 6010C	9/27/19 19:50	SXC	9/30/19 09:36		A1
Mercury, Total	ND		mg/L	0.0020	SW846 7470A	9/27/19 14:15	AHI	9/28/19 05:31		A
Selenium, Total	ND		mg/L	0.11	SW846 6010C	9/27/19 19:50	SXC	9/30/19 09:36		A1
Silver, Total	ND		mg/L	0.022	SW846 6010C	9/27/19 19:50	SXC	9/30/19 09:36		A1

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ANALYTICAL RESULTS

Workorder: 3059810 Shiloh Church Road/3-5467

Lab ID: **3059810003**
Sample ID: **SS09SE**Date Collected: 9/24/2019 11:45 Matrix: Solid
Date Received: 9/25/2019 09:03

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
WET CHEMISTRY										
Moisture	5.6		%	0.1	S2540G-11			9/30/19 11:20		
Total Solids	94.4		%	0.1	S2540G-11			9/30/19 11:20		
TCLP METALS										
Arsenic, Total	ND		mg/L	0.14	SW846 6010C	9/27/19 19:50	SXC	9/30/19 09:40		A1
Barium, Total	ND		mg/L	2.8	SW846 6010C	9/27/19 19:50	SXC	9/30/19 09:40		A1
Cadmium, Total	1.7		mg/L	0.011	SW846 6010C	9/27/19 19:50	SXC	9/30/19 09:40		A1
Chromium, Total	ND		mg/L	0.028	SW846 6010C	9/27/19 19:50	SXC	9/30/19 09:40		A1
Lead, Total	3.3		mg/L	0.033	SW846 6010C	9/27/19 19:50	SXC	9/30/19 09:40		A1
Mercury, Total	ND		mg/L	0.0020	SW846 7470A	9/27/19 14:15	AHI	9/28/19 05:32		A
Selenium, Total	ND		mg/L	0.11	SW846 6010C	9/27/19 19:50	SXC	9/30/19 09:40		A1
Silver, Total	ND		mg/L	0.022	SW846 6010C	9/27/19 19:50	SXC	9/30/19 09:40		A1

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ANALYTICAL RESULTS

Workorder: 3059810 Shiloh Church Road/3-5467

Lab ID: **3059810004**

Date Collected: 9/24/2019 12:15

Matrix: Solid

Sample ID: **SS09NW**

Date Received: 9/25/2019 09:03

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
WET CHEMISTRY										
Moisture	7.2		%	0.1	S2540G-11			9/26/19 08:58		
Total Solids	92.8		%	0.1	S2540G-11			9/26/19 08:58		
TCLP METALS										
Arsenic, Total	ND		mg/L	0.14	SW846 6010C	9/27/19 19:50	SXC	9/30/19 09:43		A1
Barium, Total	ND		mg/L	2.8	SW846 6010C	9/27/19 19:50	SXC	9/30/19 09:43		A1
Cadmium, Total	3.4		mg/L	0.011	SW846 6010C	9/27/19 19:50	SXC	9/30/19 09:43		A1
Chromium, Total	ND		mg/L	0.028	SW846 6010C	9/27/19 19:50	SXC	9/30/19 09:43		A1
Lead, Total	11.8		mg/L	0.033	SW846 6010C	9/27/19 19:50	SXC	9/30/19 09:43		A1
Mercury, Total	ND		mg/L	0.0020	SW846 7470A	9/27/19 14:15	AHI	9/28/19 05:34		A
Selenium, Total	ND		mg/L	0.11	SW846 6010C	9/27/19 19:50	SXC	9/30/19 09:43		A1
Silver, Total	ND		mg/L	0.022	SW846 6010C	9/27/19 19:50	SXC	9/30/19 09:43		A1

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ANALYTICAL RESULTS

Workorder: 3059810 Shiloh Church Road/3-5467

Lab ID: **3059810005**
Sample ID: **SS17**

Date Collected: 9/24/2019 15:00 Matrix: Solid
Date Received: 9/25/2019 09:03

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
WET CHEMISTRY										
Moisture	13.0		%	0.1	S2540G-11			9/26/19 08:58	Non responsive	
Total Solids	87.0		%	0.1	S2540G-11			9/26/19 08:58		
TCLP METALS										
Arsenic, Total	ND		mg/L	0.14	SW846 6010C	9/27/19 19:50	SXC	9/30/19 09:47	Non responsive	A1
Barium, Total	ND		mg/L	2.8	SW846 6010C	9/27/19 19:50	SXC	9/30/19 09:47		A1
Cadmium, Total	1.6		mg/L	0.011	SW846 6010C	9/27/19 19:50	SXC	9/30/19 09:47		A1
Chromium, Total	ND		mg/L	0.028	SW846 6010C	9/27/19 19:50	SXC	9/30/19 09:47		A1
Lead, Total	0.51		mg/L	0.033	SW846 6010C	9/27/19 19:50	SXC	9/30/19 09:47		A1
Mercury, Total	ND		mg/L	0.0020	SW846 7470A	9/27/19 14:15	AHI	9/28/19 05:35		A
Selenium, Total	ND		mg/L	0.11	SW846 6010C	9/27/19 19:50	SXC	9/30/19 09:47		A1
Silver, Total	ND		mg/L	0.022	SW846 6010C	9/27/19 19:50	SXC	9/30/19 09:47	Non resp	A1

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ANALYSIS - PREP METHOD CROSS REFERENCE TABLE

Workorder: 3059810 Shiloh Church Road/3-5467

Lab ID	Sample ID	Analysis Method	Prep Method
3059810001	SS09W	S2540G-11	
3059810001	SS09W	SW846 6010C	SW846 3015
3059810001	SS09W	SW846 7470A	SW846 7470A
3059810002	SS09E	S2540G-11	
3059810002	SS09E	SW846 6010C	SW846 3015
3059810002	SS09E	SW846 7470A	SW846 7470A
3059810003	SS09SE	S2540G-11	
3059810003	SS09SE	SW846 6010C	SW846 3015
3059810003	SS09SE	SW846 7470A	SW846 7470A
3059810004	SS09NW	S2540G-11	
3059810004	SS09NW	SW846 6010C	SW846 3015
3059810004	SS09NW	SW846 7470A	SW846 7470A
3059810005	SS17	S2540G-11	
3059810005	SS17	SW846 6010C	SW846 3015
3059810005	SS17	SW846 7470A	SW846 7470A

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G.O.I.A

CHAIN OF CUSTODY/
REQUEST FOR ANALYSIS
ALL SHADED AREAS MUST BE COMPLETED BY THE CLIENT /
SAMPLER. INSTRUCTIONS ON THE BACK.



of

Client Name: Environmental Restoration LLC
Address: 666 FABIOL DRIVE
FENTON, MD 63076

Contact:

Phone#:

Project Name# St. Luke Church Ltr #3-5467

Bill To:

TAT ☐ Normal-Standard TAT is 10-12 business days.

Date Required: ☒ Rush-Subject to ☐ approval and surcharges. 10/1

Email?

Fax?

Sample Description/Location
(as it will appear on the lab report)Date Collected
mm/dd/yyTime
hh:mm1 SSQ9 W 9/23/19 1640 C SO I2 SSQ9 E 9/23/19 1710 C SO I3 SSQ7 SE 9/24/19 1145 C SO I4 SSQ7 NW 9/24/19 1215 C SO I5 SSI7 9/24/19 1500 C SO I

6

7

8

9

10

SAMPLED BY (Please Print):

START

Date / - Time

9/24/19 1602

Received By / Company Name

Fedex

Date

09-25-19 0903

Time

4

6

8

10

ANALYSES/METHOD REQUESTED

TCLP METALS

Matrix

Enter Number of Containers Per Sample or Field Results Below.

Sample/COC Comments

No Hg Analyses

No Hg Analyses

No Hg Analyses

No Hg Analyses

No Hg Analyses

No Hg Analyses

No Hg Analyses

No Hg Analyses

No Hg Analyses

No Hg Analyses

No Hg Analyses

No Hg Analyses

No Hg Analyses

No Hg Analyses

No Hg Analyses

No Hg Analyses

No Hg Analyses

No Hg Analyses

No Hg Analyses

No Hg Analyses

No Hg Analyses

No Hg Analyses

No Hg Analyses

No Hg Analyses

No Hg Analyses

No Hg Analyses

No Hg Analyses

No Hg Analyses

W.O. Temp: 4C Therm ID: TH-403
Analyst Initials: [Redacted]
Courier/Tracking #: Fedex 77632401464
Purchase Order #: 5 Day TAT

Project Comments:

Field Services: ☐ Pickup ☐ Labor
☐ Composite Sampling ☐ Rental Equipment
Other:

Sampler Comments:

5 Day TAT / NO Hg Analyses

State Samples Collected In
☐ NY ☐ NJ ☐ PA ☒ VA
Special Processing
USACE ☐ CLP-like ☐ USACE/IDOD ☐
Sample Disposal
Lab ☒ Special ☐
Reportable to PADEP? Yes ☐ No ☒
PWSID # 09-45-19 0903
EDDS: Formal Type: other

* G=Grab; C=Composite **Matrix - Air=Air; DW=Drinking Water; GW=Groundwater; OL=Oil; OL=Other Liquid; SL=Sludge; SO=Soil; WP=Wipe; WW=Wastewater

Rev 04/19

Condition of Sample Receipt Form

Client: Environmental Restoration Work Order #: 3059810 Initials: [redacted] Date: 9/25

1. Were airbills / tracking numbers present and recorded?..... NONE ☒ YES NO
Tracking number: See Coc
2. Are Custody Seals on shipping containers intact?..... NONE ☒ YES NO
3. Are Custody Seals on sample containers intact?..... NONE ☒ YES NO
4. Is there a COC (Chain-of-Custody) present?..... ☒ YES NO
5. Are the COC and bottle labels complete, legible and in agreement?..... ☒ YES NO
- 5a. Does the COC contain sample locations?..... ☒ YES NO
- 5b. Does the COC contain date and time of sample collection for all samples?..... ☒ YES NO
- 5c. Does the COC contain sample collectors name?..... ☒ YES NO
- 5d. Does the COC note the type(s) of preservation for all bottles?..... ☒ YES NO
- 5e. Does the COC note the number of bottles submitted for each sample?..... ☒ YES NO
- 5f. Does the COC note the type of sample, composite or grab?..... ☒ YES NO
- 5g. Does the COC note the matrix of the sample(s)?..... ☒ YES NO
6. Are all aqueous samples requiring preservation preserved correctly?..... N/A ☒ YES NO
7. Were all samples placed in the proper containers for the requested analyses, with sufficient volume?..... ☒ YES NO
8. Are all samples within holding times for the requested analyses?..... ☒ YES NO
9. Were all sample containers received intact and headspace free when required? (not broken, leaking, frozen, etc.)..... ☒ YES NO
10. Did we receive trip blanks (applies only for methods EPA 504, EPA 524.2 and 1631E (LL Hg)?..... N/A ☒ YES NO
11. Were the samples received on ice?..... ☒ YES NO
12. Were sample temperatures measured at 0.0-6.0°C..... ☒ YES NO
13. Are the samples DW matrix ? If YES, fill out Reportable Drinking Water questions below..... ☒ YES ☒ NO
- 13a. Are the samples required for SDWA compliance reporting?..... N/A ☒ YES NO
- 13b. Did the client provide a SDWA PWS ID#?..... N/A ☒ YES NO
- 13c. Are all aqueous unpreserved SDWA samples pH 5-9?..... N/A ☒ YES NO
- 13d. Did the client provide the SDWA sample location ID/Description?..... N/A ☒ YES NO
- 13e. Did the client provide the SDWA sample type (D, E, R, C, P, S)?..... N/A ☒ YES NO

Cooler #: _____

Temperature (°C): 4 _____

Thermometer ID: 403 _____

Radiological (µCi): _____

COMMENTS (Required for all NO responses above and any sample non-conformance):

Rev. 4/29/2019